

***LineUp With Math™* Alignment**
Middle School Mathematics Core Content for Assessment
version 4.0 October 2005

Number Properties and Operations

Estimation

Content Statement

MA-06-1.2.1

Students will estimate to solve real-world and/or mathematical problems with whole numbers, fractions, decimals, and percents, checking for reasonable and appropriate computational results.
DOK - 2

***LineUp With Math™* Activities**

--Predict and resolve aircraft conflicts and explain results of mathematical calculations and simulations.

--Use percent relationships to resolve distance, rate, time conflicts in air traffic control.

Ratios and Proportional Reasoning

Content Statement

MA-06-1.4.1

Students will describe and apply ratios to solve real-world problems.
DOK - 2

***LineUp With Math™* Activities**

--Use an interactive simulator plus calculation worksheets to apply proportional reasoning to identify and resolve distance, rate, time conflicts in air traffic control.

Measurement

Measuring Physical Attributes

Content Statement

MA-06-2.1.1a

Students will estimate measurements in standard units including fractions and decimals.

***LineUp With Math™* Activities**

--Predict and resolve aircraft conflicts and explain results of mathematical calculations and simulations.

Algebraic Thinking

Patterns, Relations, and Functions

Content Statement

MA-06-5.1.3a

Students will explain how the change in one quantity affects change in another quantity (e.g., in tables or graphs, input/output tables).

***LineUp With Math™* Activities**

--Use an interactive simulator to identify distance, rate, time conflicts in air traffic control problems and resolve the conflicts by varying plane speeds or changing plane routes.